RUDY
FURNACES

Rudygrams

Rudy says:

"Our customers are not merely names on our books; they are our business partners and friends as well."

RUDY FURNACE CO. DOWAGIAC, MICH.

RUDYIZE YOUR HOME

Rudygrams

Rudy says:

"Quality is the paved way to success, cheapness the bumpy substitute which detours to dissatisfaction."

RUDY FURNACE CO. DOWAGIAC, MICH.

RUDYIZE YOUR HOME

FOREWORD

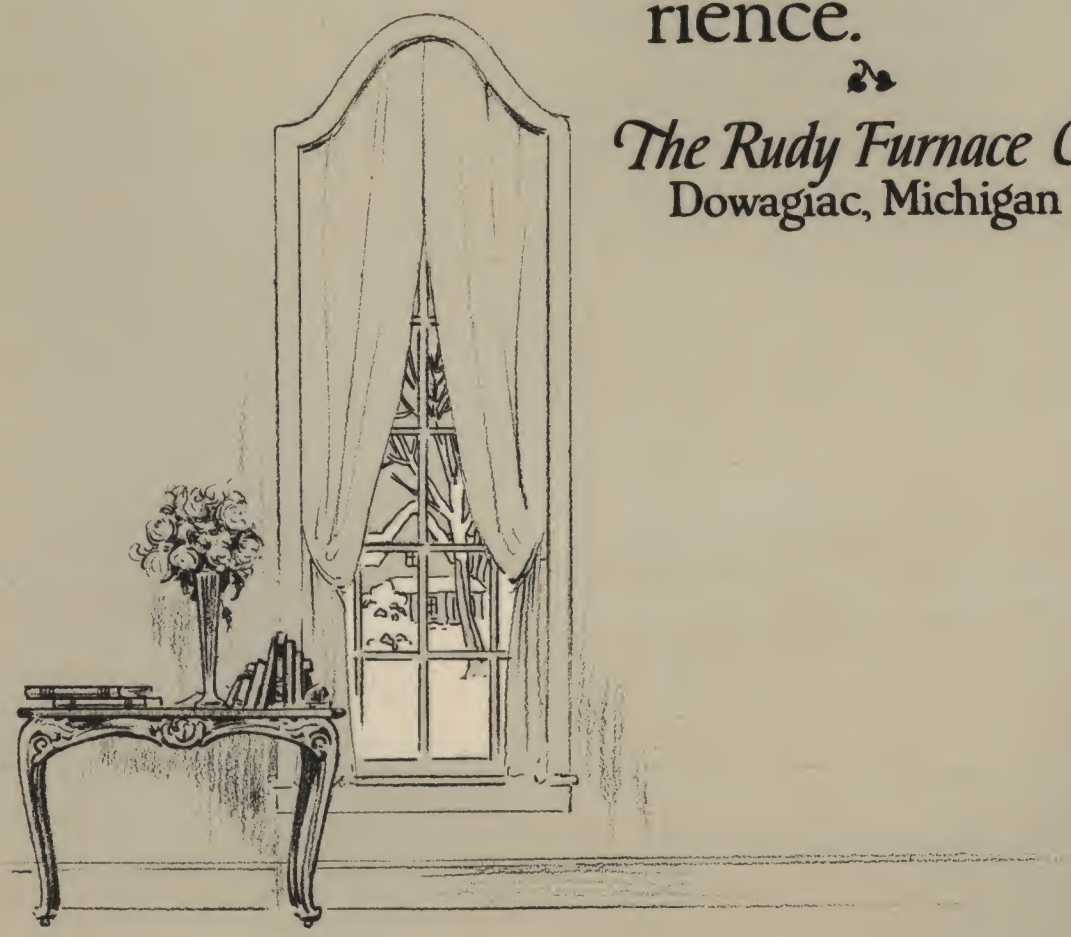
TO LEAVE nothing undone that care, skill and effort can suggest toward making and distributing a dependable product is the ideal toward which the entire Rudy organization is constantly striving, in the hope of contributing something toward the comfort, happiness and advancement of mankind, and to this end we are willing to measure our ultimate success or failure, individually and collectively, not in profits made but in service rendered.

That Different Furnace

MADE IN DOWAGIAC
RUDY
FURNACES
BY THOSE WHO KNOW HOW

An improved FURNACE built by those who know how through experience.

The Rudy Furnace Co.
Dowagiac, Michigan



What Constitutes Quality in a Furnace

By A. E. Rudolphi

IN THE purchase of a warm air heating plant there is just one rule by which the purchaser can always determine the best and wisest bargain. That furnace is the best buy which *renders the most satisfactory service over the longest period of time at the least possible cost.*

A. E. RUDOLPHI
"Rudy"
Founded The Rudy
Furnace Company
March 26, 1915

In building the "Rudy" the best informed heating men available, including engineers and experts, were consulted. To their theory and to the knowledge that the writer had personally gained through twenty years of connection with the industry, was added the best in heating practice. The result was correctness of design for satisfactory service.

Endurance was obtained through the development of a mixture known as Rudy Charcoal Iron, which set a new standard in quality. Most exacting care in fitting, mounting and inspection of each Rudy before it left the factory completed the process which positively guaranteed to the purchaser that the Rudy was a *better furnace.*

Then a fair purchase price, coupled with low fuel consumption and longer life of the furnace itself, gave the final fulfillment of the hope of making the Rudy positively the best buy in the warm air heating market.

The manufacture of Rudy Warm Air Furnaces is more than a business, it is the realization of an ideal. It is far more important to have more homes comfortably and hygienically heated at a cost within the reach of all than to garner profits from an industry so near to the happiness and welfare of one's neighbors.

Signed,

A. E. RUDOLPHI,
President and General Manager

Rudy Charcoal Iron

EARLY builders of stoves made a product that was practically indestructible. The rugged, lasting qualities that gave such powers of endurance were obtained through the use of *Charcoal Iron.*

In those days when wood was plentiful, Charcoal was cheap, and iron ore was reduced by Charcoal. As Charcoal became scarce and expensive, coke, a product of soft coal, was used to reduce ore, because it was very much cheaper.

But coke being a soft coal product, contains sulphur—the greatest weakening element in iron. This sulphur is transmitted into the iron in the blast furnace, rendering it far inferior to pig iron reduced from ore in a Charcoal furnace.

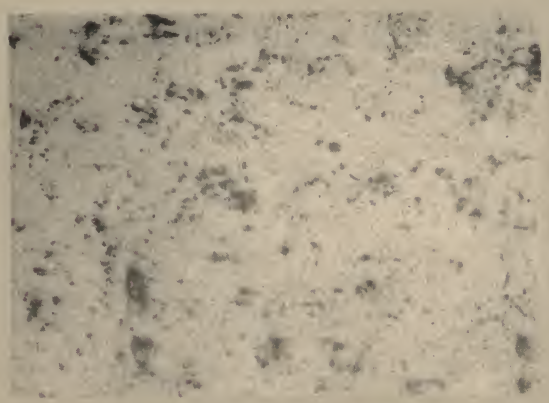
Rudy Charcoal Iron was originated after an exhaustive series of tests and analyses. It consists of a mixture in which the Charcoal Iron is the dominant factor, supplemented by the use of all new, clean iron—absolutely avoiding all kinds of scrap. It was found that this mixture made smoother, cleaner castings, which not only added to their beauty, but radiated heat more effectively.

Rudy Charcoal Iron castings are closer knit, free from sponginess, blowholes, shrinkage and hard spots. They are stronger and tougher—they have a greater resistance to heat and shock.

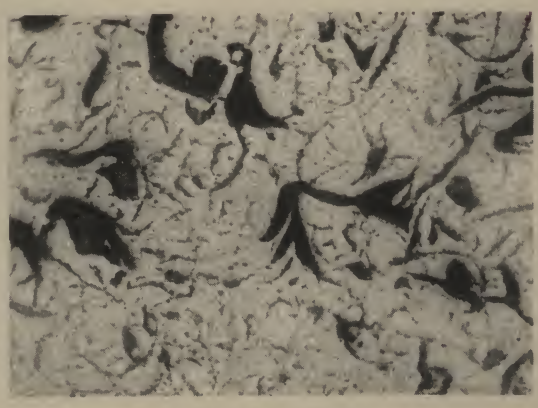
"Charcoal Iron improves castings in which it is used," say The Charcoal Iron Company of America, in their announcement to the public of the fact that the Rudy Furnace Company is using their Charcoal Iron in the manufacture of Rudy products.

If there is one factor responsible for the splendid popularity enjoyed by Rudy products it is their quality construction. Rudy Furnaces have always been and are now made of Rudy Charcoal Iron. That is why the Rudy Furnace is known as "THAT DIFFERENT FURNACE." *It is the only furnace in America made of Charcoal Iron.*

The microscope shows the difference in texture. The dark spots are spaces between the molecules of iron. Note how readily the planes of cleavage will form in ordinary iron as it crystallizes with time, and the molecules rearrange themselves.

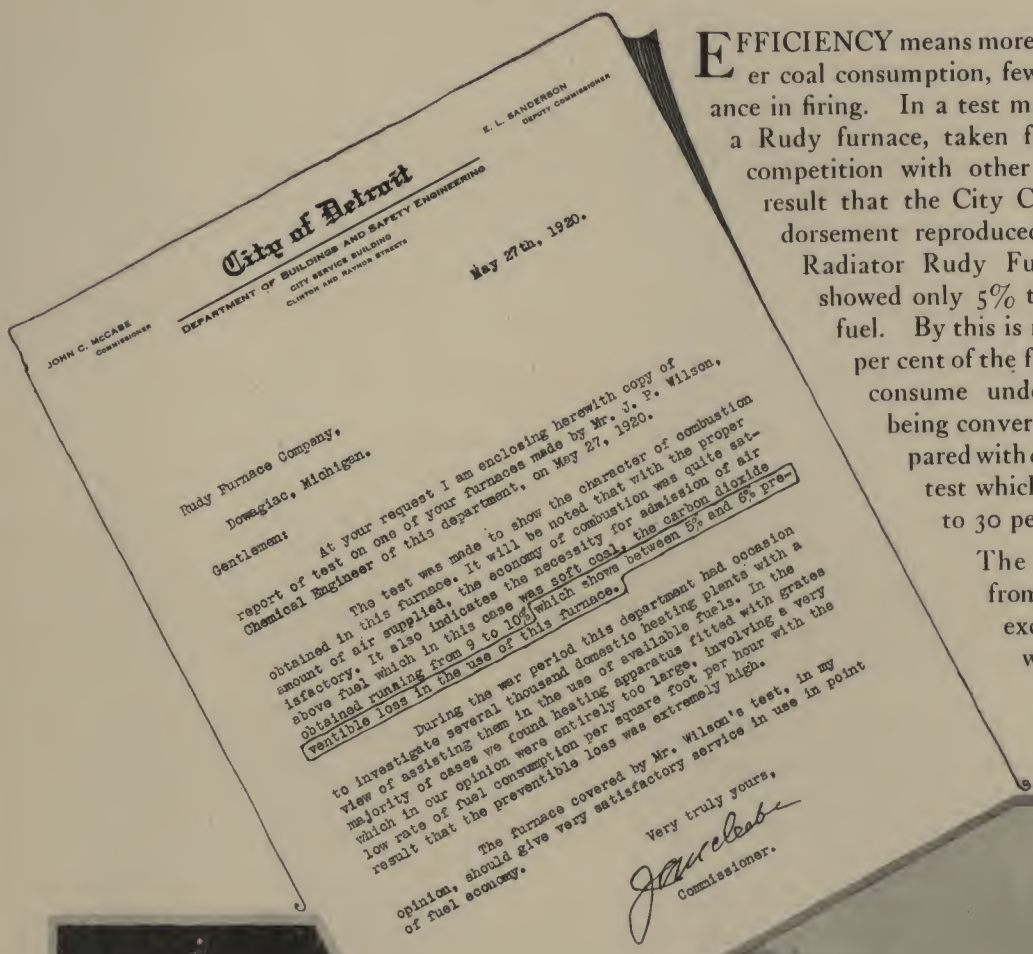


RUDY CHARCOAL IRON
Enlarged 100 times



ORDINARY IRON
Enlarged 100 times

Rudy Furnaces are "Made by Those
Designed for Efficiency



City of Detroit
DEPARTMENT OF BUILDINGS AND SAFETY ENGINEERING
CITY SERVICE BUILDING
CLINTON AND RATHON STREETS

JOHN C. McCABE, Commissioner
E. L. SANDERSON, Deputy Commissioner

May 27th, 1920.

Rudy Furnace Company,
Dowagiac, Michigan.

Gentlemen:

At your request I am enclosing herewith copy of report of test on one of your furnaces made by Mr. J. P. Wilson, Chemical Engineer of this department, on May 27, 1920.

The test was made to show the character of combustion obtained in this furnace, it will be noted that with the proper amount of air supplied, the economy of combustion was quite satisfactory. It also indicates the necessity for admission of air above fuel which in this case was soft coal, the carbon dioxide obtained running from 9 to 10% which shows between 5% and 6% preventible loss in the use of this furnace.

During the war period this department had occasion to investigate several thousand domestic heating plants with a view of assisting them in the use of available fuels. In the majority of cases we found heating apparatus fitted with grates which in our opinion were entirely too large, involving a very low rate of fuel consumption per square foot per hour with the result that the preventible loss was extremely high.

The furnace covered by Mr. Wilson's test, in my opinion, should give very satisfactory service in use in point of fuel economy.

Very truly yours,

Commissioner.

JCM-R
Enc.

EFFICIENCY means more heat at less cost—a smaller coal consumption, fewer ashes and less annoyance in firing. In a test made in Detroit, Michigan, a Rudy furnace, taken from stock, was tested in competition with other leading makes with the result that the City Commissioner gave the endorsement reproduced herewith. A 2142 Top Radiator Rudy Furnace used in this test showed only 5% to 6% preventable loss of fuel. By this is meant that all but 5 or 6 per cent of the fuel that it was possible to consume under ideal conditions was being converted into heat units, as compared with other furnaces in this same test which registered as high as 22 to 30 per cent preventable loss.

The views below are taken from Rosedale Park, Detroit's exclusive suburb. Equipped with Rudy Furnaces.

Who Know How Through Experience"

Built to Last Indefinitely

A Story of Faithful, Dependable Service

IN THE panorama views here shown is the great government project at Rock Island, Illinois, where 464 Rudys were installed in 1918-19. Government experts chose Rudys only after extended tests and comparisons. Time has proved the wisdom of their choice. Although these furnaces have been fired through several winters of severe weather, yet *not a single furnace part has been replaced.* Not one complaint has come from these four hundred and sixty-four users. Rather, spontaneous and unqualified praise of Rudy performance is given by every householder. Rudy Charcoal Iron construction means longer life to your heating plant.

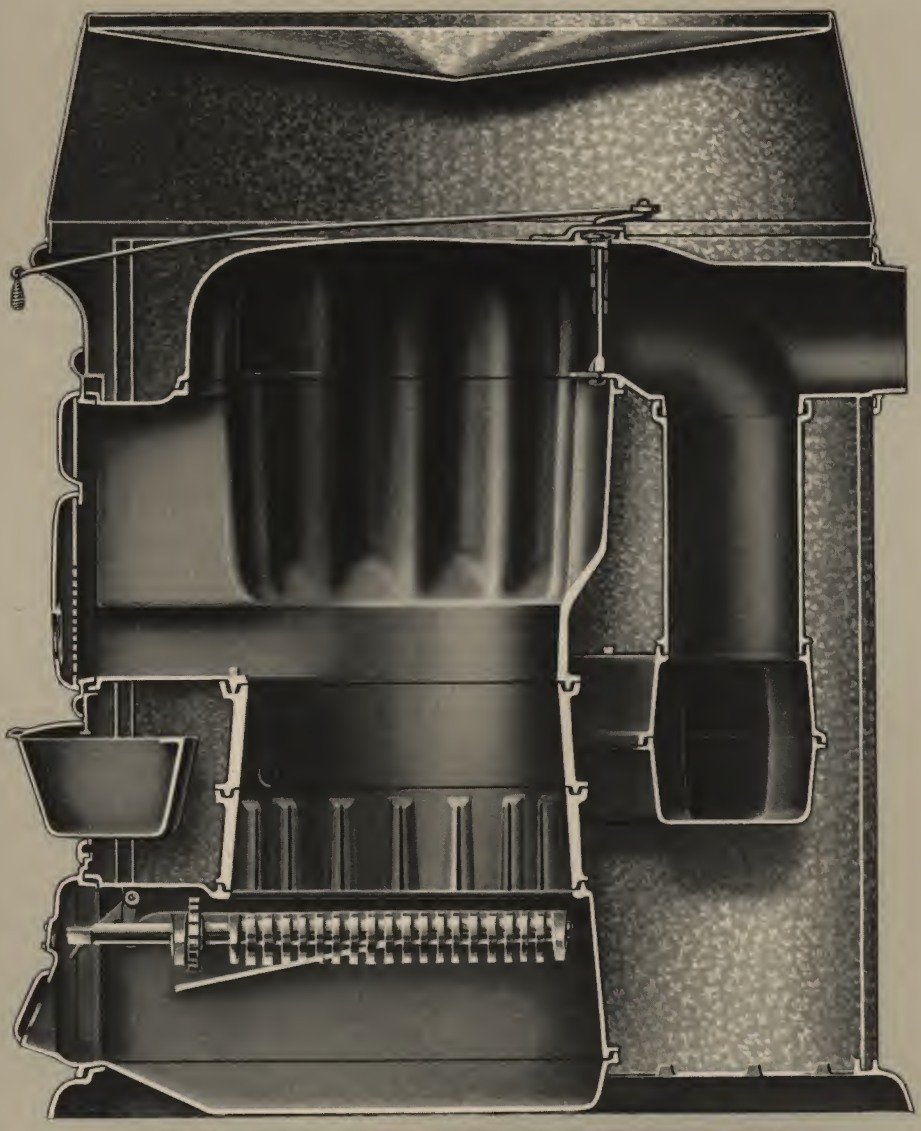
Where Rudys are once used by building contractors they are invariably specified for future needs, for two outstanding reasons.

First. Rudy heated homes sell more readily.

Second. The lack of repairs—absence of smoke, gas and dust, nominal fuel consumption and uniform distribution of heat recommends to tenants a Rudy heated home.

In addition to supplying a quality furnace the Rudy Furnace Company maintains an engineering staff to advise and design heating plans that are carefully fitted to meet the requirements of each separate job. This service is extended to the builder or contractor as well as the individual owner, without charge, in the interest of better heating. Hundreds of building contractors have learned it is a wise economy to spend a few extra dollars, if necessary to secure a Rudy heating plant.

The Rudy Furnace



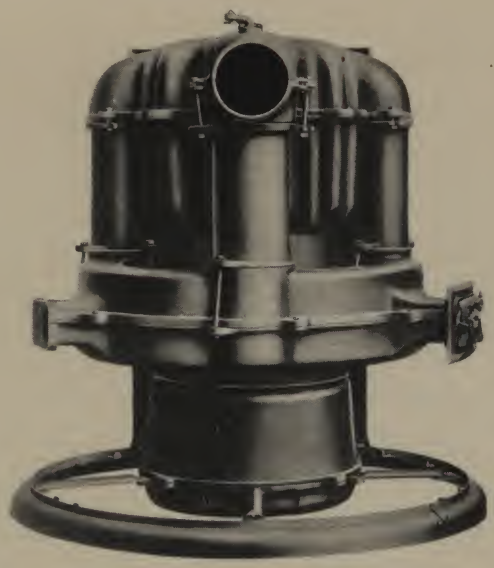
SECTIONAL VIEW OF THE DIVING FLUE HY-POWER FURNACE

Features Well Worth Observing

THIS view shows plainly the substantial base; the deep ash pit with receding bottom; the strong, easily operated grates; the heavy two section self-cleaning fire pot, larger at the bottom, (note air blast construction,) with under hung grates, giving greater capacity to fire pot and increasing grate area. Note the flange projection covering all cup joints, sealing in the asbestos cement; the extra large water pot with free air circulation; the large feed extension cast on the enormous combustion chamber; the fluted one-piece main top with vertical direct draft damper; the long fire travel inside of casing. Rudy casings are neither restricted nor freakishly large, but properly proportioned for best results.

The Hy-Power Diving Flue Furnace

AS WILL readily be seen by the accompanying illustrations, the radiating surface of this construction is enormous. Its heating capacity is not figured by the fire pot diameter, as with the regulation type of furnace, but by the proportion of heating surface to grate surface. The burning gases travel a long distance within the furnace before reaching the flue.



REAR VIEW

FRONT VIEW

For specifications see page 21

The heating efficiency of a furnace depends on the amount of heat it can deliver and the velocity of the air which passes over the heating surfaces. Regardless of the care that may be used in proportioning the warm and cold air pipes if the casing itself is not properly proportioned the efficiency of that furnace is impaired.

Main Top

Diving Flue Style

THIS is a large fluted, single piece casting, a continuation of the combustion dome of exceptional height, forming a perfect housing for the combustion chamber. The diving flues are taken off on each side of this casting. The direct draft smoke outlet is taken off at the back.

A vertical direct draft damper is used. It will not warp, and is made gas and smoke-tight with asbestos washers.

MAIN TOP

Experience helped design this part for added radiation. More iron is required and the molding cost is increased in a casting of this type, but a very large amount of radiating surface is gained and greater efficiency is achieved through this fluted construction.

Combustion Chamber

The accompanying illustration shows the all cast iron combustion chamber and feed extension cast in one single piece.

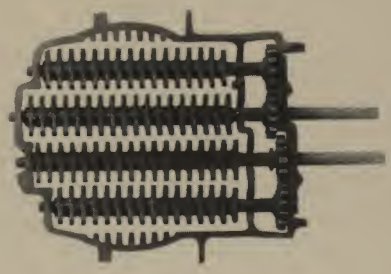
The heavy corrugations add about 40 per cent to the radiating surface and give rigidity and strength to the casting. They also break up the swift movement of gases, that occurs in a smooth bore combustion chamber, producing a highly inflammable mixture of the gases with the air admitted through the feed door, thus making them more combustible.

COMBUSTION CHAMBER

The diving flue construction retards the hot gases in their natural tendency to rise, retaining them in the combustion chamber a longer period of time. This increases the radiating efficiency of the combustion chamber and affords a greater opportunity for burning the gases that would otherwise escape to the chimney unconsumed.

The walls of the combustion chamber above the fire pot are three quarters of an inch thick as a protection against careless firing. The double lock joint makes practically a one-piece unit of the combustion chamber and main top, insuring a permanently gas tight durable construction.

Grates



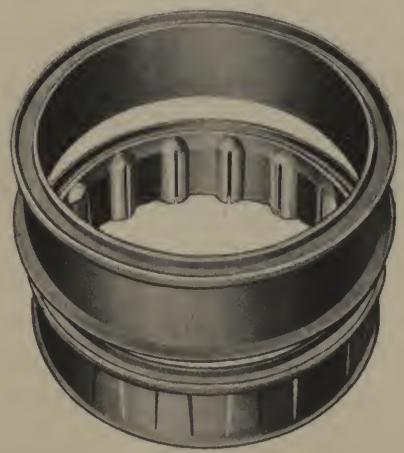
GRATE

THE Rudy triangular (triple surface—triple service) grate with two sides always away from the fire, is the most practical grate yet devised for burning hard or soft coal, coke or wood. There are four concave bars, coupled in pairs, each pair operating separately. This grate cuts a clean slice of ashes and clinkers from under the entire fire without loss of fuel. Its action breaks up the mass of fuel, permitting the air to pass freely through the fire, causing it to respond quickly. No rusty lock nuts or bolts to bother with. Grates can be removed and replaced in a moment with the new Rudy automatic trip and lock grate hanger. This grate is used in all Rudy Furnaces.

Fire-Pot

Diving Flue Style

The inverted fire pot as shown was designed unusually deep and with an increased grate surface to support proper combustion. The additional depth has a decided advantage in producing heat units. Ashes cannot accumulate and cling to the side restricting the radiation of heat. The two sections go together with deep pocket joints, packed with asbestos fibre cement between the lower and upper sections and the combustion dome. The joints are flange covered, holding the cement firmly in place and making them permanently tight. Equally proportioned openings for the passage of air extend vertically the entire height of the lower section, forcing the draft through the fuel in the fire zone, giving a more complete combustion than would be possible should the slots extend through both sections of fire pot, for the draft could then pass the fire zone and act as an over draft or check. The conical shaped air passages being larger at the bottom cannot clot, assuring a free delivery of highly heated air equally around the outer edge of the fire zone, causing the fuel to burn from the outside toward the center, compelling a complete combustion of any kind of fuel. Sufficient air to cause combustion of the liberated gases in the combustion chamber is admitted through the draft in the feed door. The reinforcing rib on the outside of the fire pot gives added strength. This construction has proven most durable and economical, for there is nothing to wear out or nothing to burn out.



FIRE POT

The Rudy Diving Flue HY-

MAIN TOP

Extra heavy, single piece corrugated, causing gases to *rotate* and mix thoroughly.

JOINTS

Double-cupped and locked. Absolutely gas and dust tight. Even abuse cannot loosen RUDY joints.

DIVING FLUE SYSTEM

Long fire travel within furnace. Enormous circulation of air around the flues.

COMBUSTION CHAMBER

Corrugated, giving extra radiating surface and forcing an intimate mixture of burning gases, compelling complete combustion.

DIVING FLUE RADIATOR

Cast in two pieces, assuring castings of uniform thickness absolutely smooth inside.

CLEAN-OUT DOORS

Outside the casing. Radiator can be cleaned without dirt or dust getting into the air chamber.

GRATES

Triple surface. Easily removed by tripping a lever. Operated in pairs.

WEIGHT

Carefully proportioned, the greatest weight against the greatest strain.

Made in Three Sizes

For specifications see page 21

Built to Heat—Economically

POWER Warm Air Furnace

DAMPER

Upright instead of horizontal. Will not stick or warp.

FRONT

Full height two-section receding front shortens the feed mouth so the combustion chamber can easily be reached when feeding fuel. The inside of the furnace is readily accessible.

DOORS

Feed doors 12 x 17 inches with milled edges. Will stay tight. Large chunks of fuel can be used.

FIRE POT

Extra heavy, two-piece, with hot blast slots in lower section. Nothing to burn out.

WATER POT

Anti-splash, of five gallon capacity. Correctly located to cause adequate evaporation. Self cleaning cover.

ASH PIT DOOR

Full size ash pit door with especially large draft opening.

ASH PIT

Exceptionally deep and roomy. Made to hold water.

BOTTOM RING

Strong and durable forms a rigid support for casing.

Built to Last—Indefinitely

Rudy Top Radiator Furnace

Used for Both Pipe and

With radiator cast in two sections, giving uniform thickness and smooth interior, easily accessible for cleaning.

With weight properly proportioned, the greatest weight against the greatest strain.

With patented combustion chamber—with internal corrugations which causes the gases to rotate and mix, thus permitting complete combustion and greater fuel economy. An exclusive Rudy feature.

With slotted lower firepot—very heavy, to withstand unusual strain. *For detailed description see page 9.*

With casing properly proportioned for maximum efficiency—neither restricted nor freakishly large.

Years of study developed this improved all cast construction—no weak parts to burn out.

The Furnace Experience Built

Designed Right, Built

For Pipe Specifications see Page 21

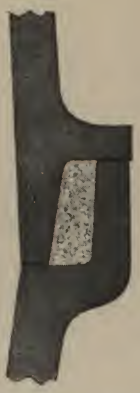
—Made of Charcoal Iron

Pipeless Installations

The Genuine Original Rudy

With asbestos packed radiator and firepot joints, completely covered and securely locked, absolutely preventing the escape of gas or smoke.

FIREPOT JOINT

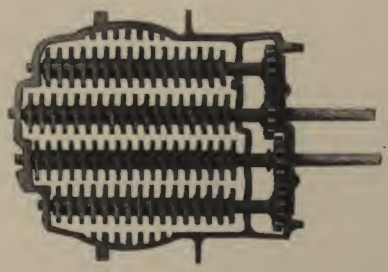


RADIATOR JOINT

With double feed doors, extra large, having draft damper feature.

With large anti-splash water pan having self cleaning cover.

With heavy triangular triple surface (triple service) concave grates, recommended by engineers—can be readily removed.



With large roomy ash pit, holding water which moistens ashes permitting their removal without dust.

The success of this furnace is attested by thousands of satisfied users—insist upon the genuine, original Rudy.

Right, Sold Right

For Pipeless Specifications see Page 20

Properly Proportioned Casings

Neither Unduly Restricted Nor Freakishly Large

NO PART of a warm air furnace is more important than the casing which surrounds it. It is the function of the casing to bring the rising air into contact with the heated castings and deliver it to the pipes or registers, thus transferring the heat from the castings to the rooms above with the least possible loss. For a long time heating engineers have known that casings too small or unduly restricted meant a loss in efficiency. Unless the proper amount of air is circulated, the heat is not taken off the castings, resulting in an over heated furnace with "burnt air" circulation. Likewise, the overly large casing embraces more air than can be properly heated, hence there are internal "eddies" and "back currents" which cause a sluggish circulation of warm air.

When the Rudy was designed the principle of a casing diameter approximating twice the fire pot diameter was adopted. The wonderful success of the Rudy as a heater and fuel economizer has attested the wisdom of this standard. And now come reports of scientific investigations confirming, after years of successful practice, the correctness of Rudy casing proportions. Rudy casings when properly piped, are guaranteed to be correctly designed to carry a steady flow of warm air without loss of heat or damage of over heated castings.

Healthful Air

Seventy per cent of our children are affected with adenoid and tonsil trouble. Doctors agree that this terrible condition is directly due to the hot, dry, gas laden air children are compelled to breathe, placing the responsibility squarely on the ordinary heating plant. Can you expect your family to breathe foul, poisonous, dry air—dryer than the air on the Sahara desert, and keep healthy? Your doctor says pneumonia, bronchitis, and tuberculosis thrive in such air. The RUDY is endorsed both by doctors and users for its ability to deliver clean, moist, invigorating air, free from dust, gas or smoke. You owe it to your family to provide healthful, humidified, fresh air with a RUDY Furnace and then notice how your fuel and doctor bills decrease.

That Different Furnace

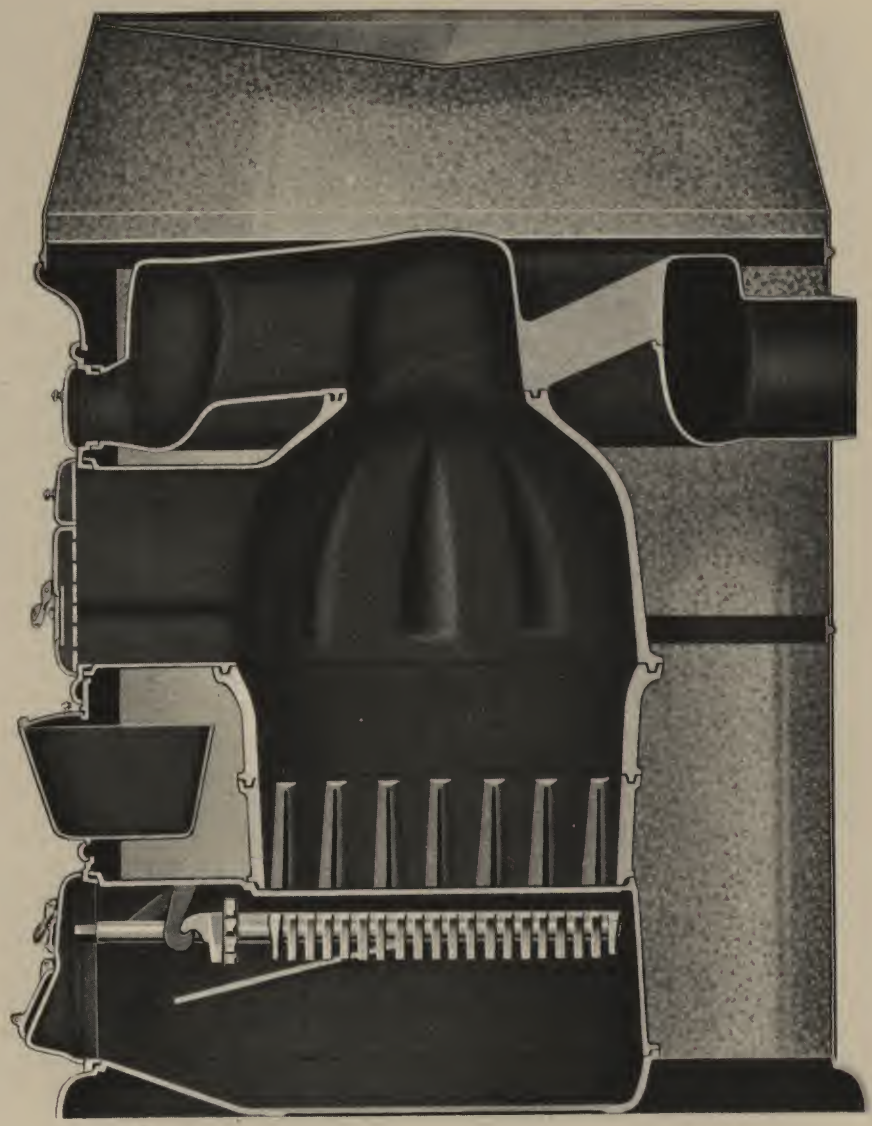
The Improved Rudy Top Radiator Furnace

Notice the New Features

1. Radiator improved to swing to any position desired in order to connect smoke outlet direct to chimney.
2. Large *Double Doors* for feeding all kinds of fuel, hard or soft coal, coke, wood.
3. Improved water pan with anti-splash feature and self cleaning, one piece cover.
4. New Rudy automatic trip and lock grate frame support, permitting the removal of grates in thirty seconds without effort.

"The Rudy Furnace continues—Modern—Different and Better."

The Rudy Furnace



SECTIONAL VIEW OF RUDY TOP RADIATOR FURNACE

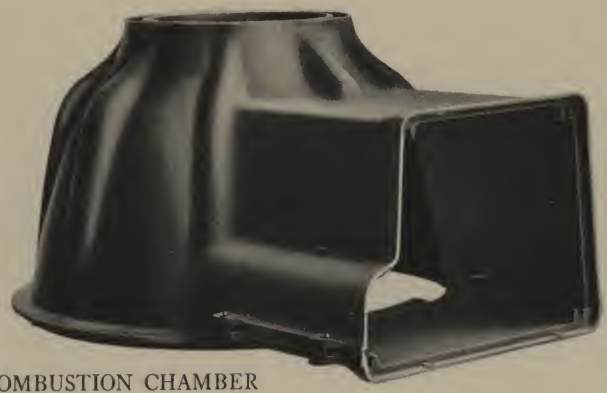
For specifications see page 21

ALL Cast Iron construction—nothing to burn out. "Can't Leak" cup joints—no smoke or dust can streak your walls. Casing correctly proportioned to carry away the heat generated. Added radiating surfaces—deliver more heat to the rooms—less up the chimney. Slotted fire pot, open grates, corrugated combustion chamber — completely consume any kind of fuel. Notice the generous proportions of all the parts.

Rudy economy in fuel consumption makes its purchase a profitable investment because it will pay for itself in fuel saved within a few years.

Patented Combustion Chamber

Top Radiator Style



COMBUSTION CHAMBER
Exclusive Rudy Patent

THE combustion chamber can be compared to the lungs of the human body. It is where the oxidation takes place, where oxygen mixes with carbon. The ability to expand the lungs to generous proportions means more available oxygen and makes red blood. Likewise the large Rudy combustion chamber means more complete combustion and fuel economy. The Rudy combustion chamber is higher, bell shaped and of extraordinary capacity. In addition it has internal corrugations which cause the rising gases to rotate and mix, thus bringing oxygen and carbon into more free contact. The union of carbon and oxygen means combustion. The Rudy combustion chamber is the most significant factor in Rudy's record for fuel economy. It is an exclusive patented Rudy feature.

Room Heaters

Especially designed for school houses, stores, churches, and any building without a basement. Extensively used in government cantonments, one unit school projects, rural schools, churches, and public buildings because it is more powerful, permanently gas tight, and cleaner than plants ordinarily used for this type of building.

Indorsed by State Boards of Education, Government Commissions, Building Committees, etc.

Built from the Rudy Top Radiator style of heater.

Installed to Meet the Requirements of Your State Heating Code

The Newly Invented Double Front Pipeless

IF THIS furnace had no other distinguishing features the simplicity of erection alone would recommend to you the new, wonderful Rudy Double Front Pipeless Furnace. One man can now in a few hours install a Rudy—the furnace that offers the most in comfort, durability, efficiency. The extra large water pan produces the humidity that insures comfort and health; exclusive charcoal iron castings make the Rudy last a lifetime; scientific, careful construction results in reduced fuel bills.

The fulfillment of everything you hoped for in furnace construction and efficiency

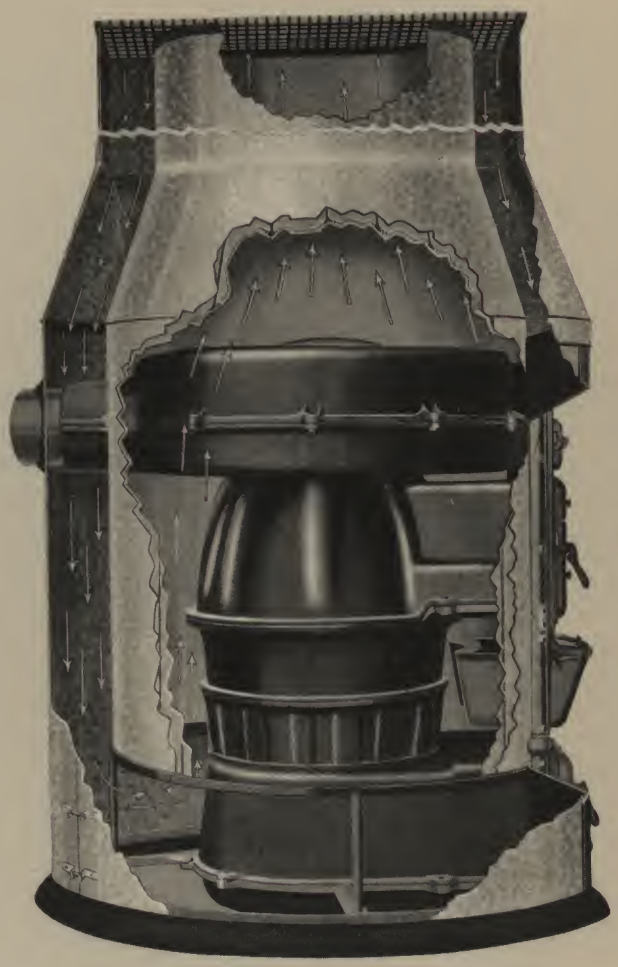
Rudy furnaces are in big demand because of their dependability and surprising economy; from now on they will be in even greater demand, since to these two features have been added the one of easy, simple erection; making for even greater rigidity and mechanical perfection. No home-owner who is in need of a furnace can afford to buy without first seeing the Rudy.

Can be easily installed in a six-foot basement

No matter whether the basement be high or low—the Rudy can be readily installed. No pipes are necessary. Every home that has a basement can enjoy the comforts of a Rudy.

Burns any fuel—successfully

Rudy Furnaces are constructed to burn any kind of fuel. Air-tight construction absolutely prevents the escape of gas, smoke or soot.



What the RUDY Will Do

Warm your home to an even temperature in any weather.

Evaporate from seven to twelve gallons of water every twenty-four hours, humidifying the air.

Enable the storage of fruits and vegetables in your cellar without building separate rooms.

Warm your home, store or other building comfortably and free from smoke, gas, dust or soot—RUDY's gas tight joints guarantee this.

The great volume of air circulated by the large casings and registers keeps the furnace from overheating or burning out.

Hold water in the ash pit—keeping down the dust in the basement and making a brighter, hotter fire.

The deep, roomy ash pit holds several days' ashes before endangering the grate.

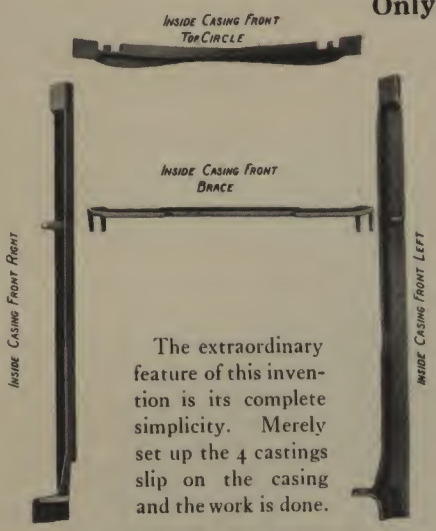
Change the air more often thus assuring a more even distribution of heat.

Receding front makes it easy to fire.

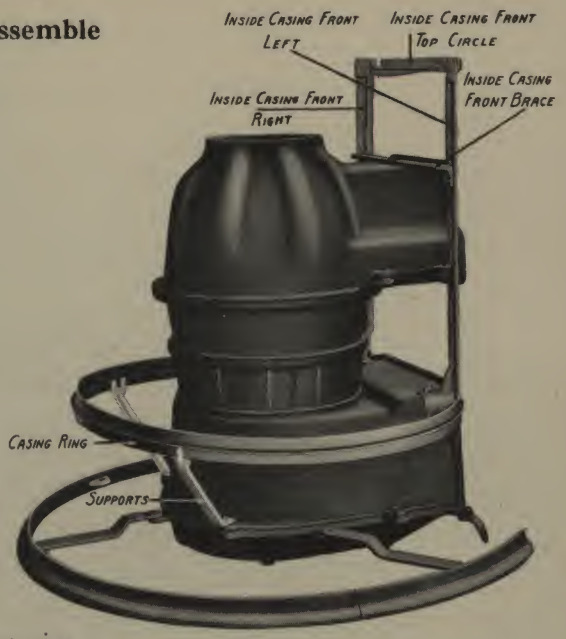
Perfect control of draft saves fuel by enabling you to carry light or heavy fire, as you wish.

Detail Views of the Patented Rudy Double Front Pipeless

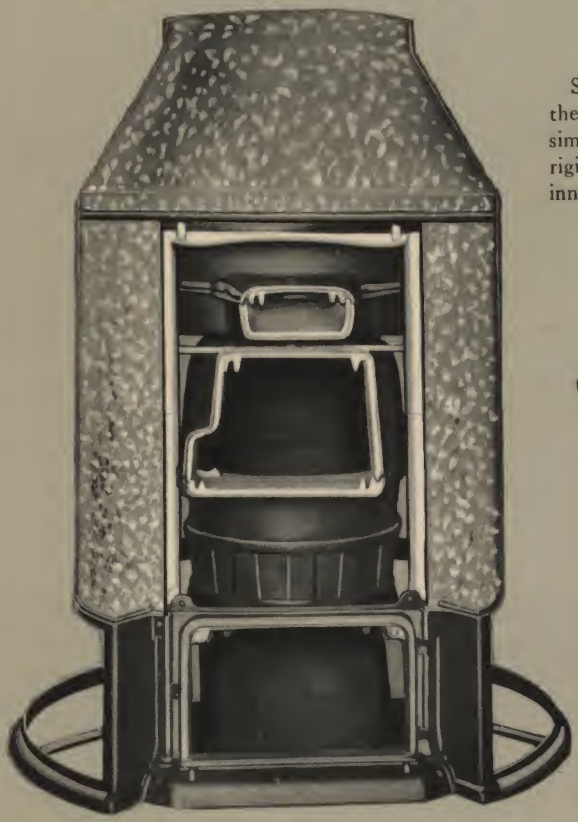
Only 4 Castings to Assemble —No Bolts



The extraordinary feature of this invention is its complete simplicity. Merely set up the 4 castings slip on the casing and the work is done.



Side view illustrating the back supports. The simple, forked supports rigidly hold the lower inner casing ring in place.



The illustration at the left shows the inside casing castings in place, with inside casing and cone top assembled, a neat, solid, compact job.

It now remains but to put on the main front, as shown in the illustration at the right, attach the outer casing and the job is completed.

The ease with which this patented double front construction can be assembled is in marked contrast to the old fashioned, awkward construction.

Surely this is the greatest furnace invention in recent years.

The Rudy (Patented) Double Front Pipeless

Can be as easily installed in a six-foot basement as in one that is deeper.

This is truly "THE FURNACE EXPERIENCE BUILT"

"Burns any fuel."

Large furnaces—large casings—large registers mean more heat—less fuel—longer service.

Neat, Simple and Rigid

NOTE THESE GENEROUS PROPORTIONS

Specifications

	No. 48B	No. 50B	No. 54B	No. 58B
Rudy Pipeless	30 x 30	30 x 36	36 x 36	40 x 40
Duplex Register Opening	22	24	28	30
Warm Air Opening	237	301	350	467
Warm Air Volume Square Inch	274	314	389	456
Cold Air Volume Square Inch	38	40	44	48
Diameter Inside Casing	48	50	54	58
Diameter Outside Casing	8 to 14000	11 to 18000	15 to 23000	20 to 35000
Cubic Feet Heating Capacity	8	8	8	9
Diameter Smoke Pipe Collar	31	33	36	40
Diameter Radiator	19	21	23	25
Diameter Firepot	10 x 11	12 x 12	13 x 13	13 x 13
Size of Feed Door	12¾	13¾	14¾	15¾
Depth of Firepot	13	15	17½	18
Height of Combustion Chamber	47	52	53	56
Height of Front	64	69	71	73
Height of Casing	900	1050	1150	1350
Weight of Castings Only	1165	1375	1575	1820
Weight of Furnace Complete				

Specifications for Rudy Pipe Furnaces

	TOP RADIATOR STYLE Illustrated on pages 12 and 13				DIVING FLUE (HY-POWER) Illustrated on pages 10 and 11		
	1938	2142	2346	2550	2748	2951	3155
Depth of firepot	12¾ in.	13¾ in.	14¾ in.	15¾ in.	19½ in.	20½ in.	21½ in.
Diameter of firepot	19	21	23	25	19	21	23
Diameter of casing	38	42	46	50	48	51	55
Diameter of radiator	31	33	36	40	38½	42	45½
Diameter of smoke collar	8	8	8	9	8	8	9
Height of front	46	50	52	54	54	55	57
Height of combustion chamber	13	15	17½	18	18½	19	19
Height of casing with 14-in. cone top	60	64	66	68	68	69	71
Height of base ring	2	2½	2½	2½	2½	2½	2½
Ht. bottom of smoke collar from floor	36½	40	42	42½	44½	45½	46½
Ht. from floor to bottom of radiator	36½	40	42	42½	20	21	21½
Size of feed door	10 x 11	12 x 12	13 x 13	13 x 13	12 x 17	12 x 17	13 x 18
Size of ash pit door	10½ x 16	11 x 18	11 x 20	11 x 22	11 x 20	11 x 22	12 x 24
Length of casing sheet	99½	110	119	130	126	133	143
Width of upper casing sheet	19¾	23	23	25	25	26	26
Width of lower casing sheet	24	24	26	26	26	26	28
*Maximum warm air pipe area	400	500	600	750	600	750	900
°Example of number and size warm air pipes recommended for residences	3-12″ 1-9″	3-12″ 2-10″	1-14″ 2-12″ 2-10″ 1-9″	3-14″ 2-12″ 1-9″	1-14″ 2-12″ 2-10″ 1-9″	3-14″ 2-12″ 1-9″	2-14″ 4-12″ 1-10″ 1-9″
Size cold air pipes recommended	2-16″	2-18″	2-20″	2-22″	2-20″	2-22″	3-20″
‡Cubic feet capacity for stores and halls, churches and schools	8 to 14000	12 to 19000	18 to 29000	27 to 45000	18 to 30000	28 to 45000	40 to 60000
Size warm air pipes recommended for stores and halls	1-22″ or 2-16″	1-24″ or 2-18″	1-26″ or 2-20″	1-30″ or 2-22″	1-26″ or 2-20″	1-30″ or 2-22″	1-34″ or 2-24″
†Code word	Rain	Snow	Wind	Thunder	Coon	Tiger	Elephant

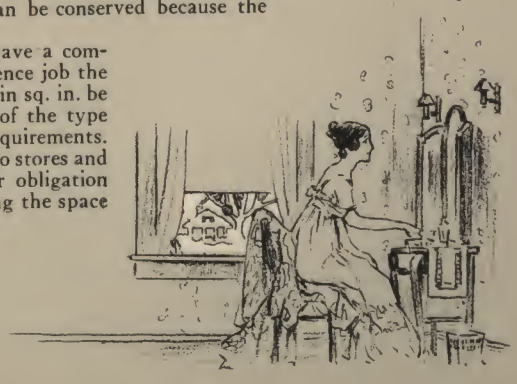
†When ordering or referring to an order by telegram, use this code. Example: "Ship two coons, eight tigers, six elephants all with casings." Brown Hardware Company.

Manufacturers usually rate their furnaces solely by designating the number of cubic feet of space which the furnace will heat. This method of rating is not reliable because such ratings do not take the character or location of the building into consideration nor the other elements which determine heating requirements.

*It will be noted therefore that we indicate the maximum warm air pipe area each furnace is capable of supplying and for greatest efficiency we recommend that pipes whose combined area equals the full rated pipe area be used on all jobs. Then every possible atom of heat can be conserved because the pipes are adequate to carry the heat to the rooms as fast as generated.

°Pipes of sizes other than those shown may be used but they should have a combined area equal to those recommended. We suggest in planning a residence job the size pipes necessary to heat each room be first determined and their area in sq. in. be added together. Then choose from the table of capacities the furnace of the type desired having the capacity to heat a volume equal to the warm air pipe requirements.

‡The minimum rating applies to schools and churches, the maximum to stores and halls. Our Engineering Department will gladly furnish without cost or obligation specific recommendations for any heating job on receipt of a sketch showing the space to be heated.



Rudygrams

Rudy says:

"Buy the best article—if it costs more charge it to insurance—the insurance of satisfaction."

RUDY FURNACE CO. DOWAGIAC, MICH.

RUDYIZE YOUR HOME

Rudygrams

Rudy says:

The man who sells his goods or service at a low price probably knows best what they are worth.

RUDY FURNACE CO. DOWAGIAC, MICH.

RUDYIZE YOUR HOME

Home of the Rudy Furnace

Dowagiac, Michigan.

MADE IN DOWAGIAC
RUDY
FURNACES
BY THOSE WHO KNOW HOW

Digitized by:

APT INTERNATIONAL

ASSOCIATION FOR PRESERVATION TECHNOLOGY
www.apti.org

For the

BUILDING TECHNOLOGY HERITAGE LIBRARY

https://archive.org/details/buildingtechnologyheritagelibrary

From the collection of:

Tulane University | Southeastern Architectural Archive
Special Collections
Howard-Tilton Memorial Library

http://seaa.tulane.edu